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### 1 [Efficiently publishing relational data as XML documents](#)

Jayavel Shanmugasundaram, Eugene Shekita, Rimon Barr, Michael Carey, Bruce Lindsay, Hamid Pirahesh, Berthold Reinwald

September 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 2-3

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(216.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

XML is rapidly emerging as a standard for exchanging business data on the World Wide Web. For the foreseeable future, however, most business data will continue to be stored in relational database systems. Consequently, if XML is to fulfill its potential, ...

Keyw ords: Publishing, Relational databases, XML


## 2 Induction of integrated view for XML data with heterogeneous DTDs



Euna Jeong, Chun-Nan Hsu

October 2001 CIKM '01: Proceedings of the tenth international conference on Information and knowledge management

**Publisher:** ACM

Full text available:  [pdf\(2.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper proposes a novel approach to integrating heterogeneous XML DTDs. With this approach, an information agent can be easily extended to integrate heterogeneous XML-based contents and perform federated search. Based on a tree grammar inference ...

**Keywords:** XML DTD, distributed databases, federated search, intelligent agent, mark-up schemes, semistructured data

## 3 Active rules for XML: A new paradigm for E-services

Angela Bonifati, Stefano Ceri, Stefano Paraboschi

August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(81.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

XML is rapidly becoming one of the most widely adopted technologies for information exchange and representation. As the use of XML becomes more widespread, we foresee the development of active XML rules, i.e., rules explicitly designed for the management ...


**Keywords:** Active databases, Document management, Query languages for XML, XML, XSLT

## 4 XML-enabled workflow management for e-services across heterogeneous platforms

German Shegalov, Michael Gillmann, Gerhard Weikum

August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(662.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Advanced e-services require efficient, flexible, and easy-to-use workflow technology that integrates well with mainstream Internet technologies such as XML and Web servers. This paper discusses an XML-enabled architecture for distributed workflow management ...

**Keywords:** Business processes, Information system interoperability, Internet e-services, Workflow management, XML/XSL


## 5 An XML-based approach to multimedia software engineering for distance learning



T. Arndt, S. K. Chang, A. Guercio, P. Maresca

July SEKE '02: Proceedings of the 14th international conference on Software engineering and knowledge engineering

**Publisher:** ACM

Full text available:  pdf(95.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification ...

## 6 A 3D XML-based customized framework for dynamic models



Taewoo Kim, Paul A. Fishwick

February Web3D '02: Proceedings of the seventh international conference on 3D 2002 Web technology

**Publisher:** ACM


Full text available:  pdf(377.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


There are numerous forms for dynamic models, which specify how an object or scene behaves over time. Discrete state automata, Petri nets, and data flow graphs are only a few samples of model types available, which aid modelers in capturing dynamics. ...

**Keywords:** 3D, MXL, VRML, X3D, XML, XSLT, aesthetic computing, aesthetic programming, dynamic modeling, model design, personalization, rube

## 7 Discovering approximate keys in XML data

 Gösta Grahne, Jianfei Zhu  
November 2002 CI KM '02: Proceedings of the eleventh international conference on  
Information and knowledge management


**Publisher:** ACM

Full text available:  [pdf\(202.01 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Keys are very important in many aspects of data management, such as guiding query formulation, query optimization, indexing, etc. We consider the situation where an XML document does not come with key definitions, and we are interested in using data ...

## 8 Generating remote control interfaces for complex appliances

 Jeffrey Nichols, Brad A. Myers, Michael Higgins, Joseph Hughes, Thomas K. Harris, Roni Rosenfeld, Mathilde Pignol  
October 2002 UI ST '02: Proceedings of the 15th annual ACM symposium on User  
interface software and technology

**Publisher:** ACM


Full text available:  [pdf\(4.58 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The *personal universal controller* (PUC) is an approach for improving the interfaces to complex appliances by introducing an intermediary graphical or speech interface. A PUC engages in two-way communication with everyday appliances, first downloading ...

Keyw ords: appliances, handheld computers, pebbles, personal digital assistants (PDAs), personal universal controller (PUC), remote control, universal speech interface (USI)

## 9 Unparsing RDF/XML

 Jeremy J. Carroll  
May 2002 WWW '02: Proceedings of the 11th international conference on World Wide  
Web

**Publisher:** ACM

Full text available:  [pdf\(296.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is difficult to serialize an RDF graph as a humanly readable RDF/XML document. This paper describes the approach taken in Jena 1.2, in which a design pattern of guarded procedures invoked using top down recursive descent is used. Each procedure corresponds ...

Keyw ords: RDF, XML, generation, grammar, parsing, universal algebra, unparsing


## 10 Effective Web data extraction with standard XML technologies



Jussi Myllymaki

April WWW '01: Proceedings of the 10th international conference on World Wide Web  
2001 Web

**Publisher:** ACM

Full text available:  [pdf\(198.81 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keyw ords: crawling, data extraction, deep Web, semistructured data, wrappers


## 11 Using Javadoc and XML to produce API reference documentation



Donald M. Leslie

October SI GDOC '02: Proceedings of the 20th annual international conference on  
2002 Computer documentation

**Publisher:** ACM

Full text available:  [pdf\(623.29 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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The creation of API reference documentation and its integration into larger documentation sets present a number of challenges. This paper explores a strategy for using Javadoc, the primary mechanism for generating Java API documentation, in conjunction ...

Keyw ords: API documentation, HTML, Javadoc, XML, XSL stylesheets, XSLT, doclets, document transformation

## 12 Mapping and displaying structural transformations between XML and PDF



Matthew R. B. Hardy, David F. Brailsford

November DocEng '02: Proceedings of the 2002 ACM symposium on Document  
2002 engineering

**Publisher:** ACM


Full text available:  [pdf\(439.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)


Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after ...

Keyw ords: PDF, XML, document structure transformation

### 13 Lazy XML processing

 Markus L. Noga, Steffen Schott, Welf Löwe  
November 2002 DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering

**Publisher:** ACM


Full text available:  [pdf\(197.96 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper formalizes the domain of tree-based XML processing and classifies several implementation approaches. The lazy approach, an original contribution, is presented in depth. Proceeding from experimental measurements, we derive a selection strategy ...

**Keywords:** XML, document object model, lazy evaluation, parsing

### 14 Algorithms and programming models for efficient representation of XML for Internet applications

 Neel Sundaresan, Reshad Moussa  
April 2001 WWW '01: Proceedings of the 10th international conference on World Wide Web


**Publisher:** ACM

Full text available:  [pdf\(352.97 KB\)](#)


Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Keywords:** DOM, SAX, WBXML, XML, compression

### 15 Generating presentation constraints from rhetorical structure

 Lloyd Rutledge, Brian Bailey, Jacco van Ossenbruggen, Lynda Hardman, Joost Geurts  
May 2000 HYPERTEXT '00: Proceedings of the eleventh ACM on Hypertext and hypermedia

**Publisher:** ACM

Full text available:  [pdf\(233.19 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


**Keywords:** authoring, constraints, meta-structure, presentation generation, rhetorics

**16** An XML model for small business e-commerce

Jim Sims, Rahul Tikekar

November 2000 CCSC '00: Proceedings of the fourteenth annual consortium on Small Colleges Southeastern conference

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(74.30 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a model based on the eXtensible Markup Language (XML) for small businesses e-commerce. The ideas behind this paper grew from the authors' and other Southern Oregon University students' experiences working with lesser-funded, technically ...

**17** An XML model for small business e-commerce

Jim Sims, Rahul Tikekar

October 2000 Proceedings of the second annual CCSC on Computing in Small Colleges Northwestern conference

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(74.30 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a model based on the eXtensible Markup Language (XML) for small businesses e-commerce. The ideas behind this paper grew from the authors' and other Southern Oregon University students' experiences working with lesser-funded, technically ...

**18** Second edition of the "XML and information retrieval" workshop held at SIGIR'2002, Tampere, Finland, Aug 15<sup>th</sup>, 2002



Ricardo Baeza-Yates, Norbert Fuhr, Yoelle S. Maarek

September 2002 ACM SIGIR Forum, Volume 36 Issue 2

**Publisher:** ACM

Full text available:  [pdf\(41.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

The previous workshop on "XML and Information Retrieval" was held in the context of SIGIR'2000 (Athens, Greece) and showed that there is a serious interest in managing semi-structured data from an IR (i.e., unstructured) perspective rather than from ...


## 19 [Efficient evaluation of XML middle-ware queries](#)



Mary Fernandez, Atsuyuki Morishima, Dan Suciu

June 2001 ACM SIGMOD Record, Volume 30 Issue 2

**Publisher:** ACM

Full text available:  [pdf\(414.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We address the problem of efficiently constructing materialized XML views of relational databases. In our setting, the XML view is specified by a query in the declarative query language of a middle-ware system, called SilkRoute. The middle-ware system ...

## 20 [Effective structural inference for large XML documents](#)

Jason Sankey, Raymond K. Wong

August 2002 Proceedings of the 19th international conference on Computational linguistics - Volume 1, Volume 1

**Publisher:** Association for Computational Linguistics

Full text available:  [pdf\(160.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper investigates methods to automatically infer structural information from large XML documents. Using XML as a reference format, we approach the schema generation problem by application of inductive inference theory. In doing so, we review and ...

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